



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION:

Series "7225/ 8225TL" Thermal Broken Aluminum Fixed over Project-Out Window -- L.M.I.

APPROVAL DOCUMENT: Drawing No. 1415, titled, "7225/ 8225TL Fixed/ Project-Out Window (Large Missile Impact)", sheets 01 through 04 of 04, dated 04/06/05 with revision "C1" dated 02/28/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0304.10 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. GASCON
8/5/14

NOA No. 14-0430.14
Expiration Date: December 01, 2015
Approval Date: August 14, 2014
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA's No.'s 13-0304.10 and 05-0725.06)
2. Drawing No. 1415, Sheets 1 through 4 of 4, titled "7225/ 8225TL Fixed/ Project-Out Window (Large Missile Impact)", dated 04/06/05 with revision "C1" dated 02/26/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E. *(Submitted under previous NOA No. 13-0304.10)*

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Farabaugh Engineering and Testing, Inc., Test Reports No.'s **FET-T248-11** dated 08/08/11 and **FET-T248-11** dated 07/28/11, both signed and sealed by Daniel G. Farabaugh, P. E.
(Submitted under previous NOA No. 13-0304.10)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-G049-0102-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P. E.
(Submitted under previous NOA No. 05-0725.06)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-G049-0505-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P. E.
(Submitted under previous NOA No. 05-0725.06)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0430.14
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B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-G049-0403-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P. E.
(Submitted under previous NOA No. 05-0725.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by W. W. Schaefer Engineering & Consulting P. A., dated 09/01/10, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 11-1013.10)
2. Glazing complies with ASTM E1300-04/ 09

D. QUALITY ASSURANCE


1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Test Report on 1) **ASTM G155-00ae1** "Standard Practice for Operating Xenon Arc Apparatus for Exposure of Non-Metallic Materials" accelerated weathering,
2) **ASTM D638-03** "Standard Test Methods for Tensile Properties of Plastics",
3) **ASTM D635-98** "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position",
4) **ASTM D2843-99** "Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics" and
5) **ASTM D1929-96** "Standard Test Method for Ignition Properties of Plastics"

along with marked-up drawings and installation diagram of an "Insulbar Tecatherm 66 GF" (Thermal Barrier), issued to Ensinger, Inc., prepared by Architectural Testing, Inc., Test Report No. **ATI-06520.02-106-18**, dated 12/01/06, signed and sealed by Joseph A. Reed, P. E.

(Submitted under previous NOA No. 10-0908.08)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0430.14
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)


2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
3. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
4. Notice of Acceptance No. **12-1231.08** issued to **Eastern Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 03/28/13, expiring on 12/11/18.
5. Notice of Acceptance No. **12-1231.09** issued to **Eastern Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" dated 03/28/13, expiring on 04/14/18.
6. Notice of Acceptance No. **12-1120.04** issued to **Viracon, Inc.** for their "**StormGuard Clear or Color Glass Interlayers**" dated 05/09/13, expiring on 04/14/18.

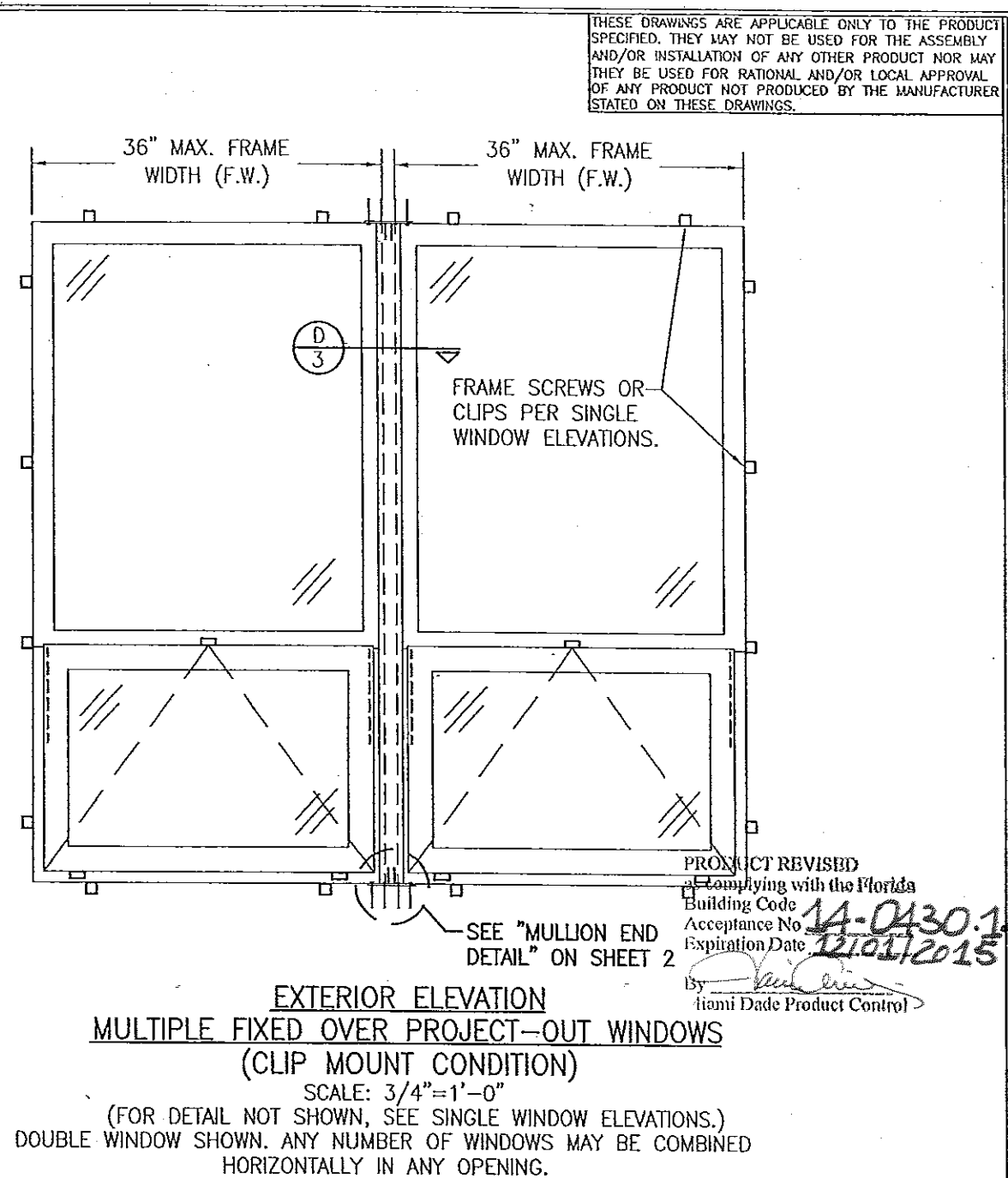
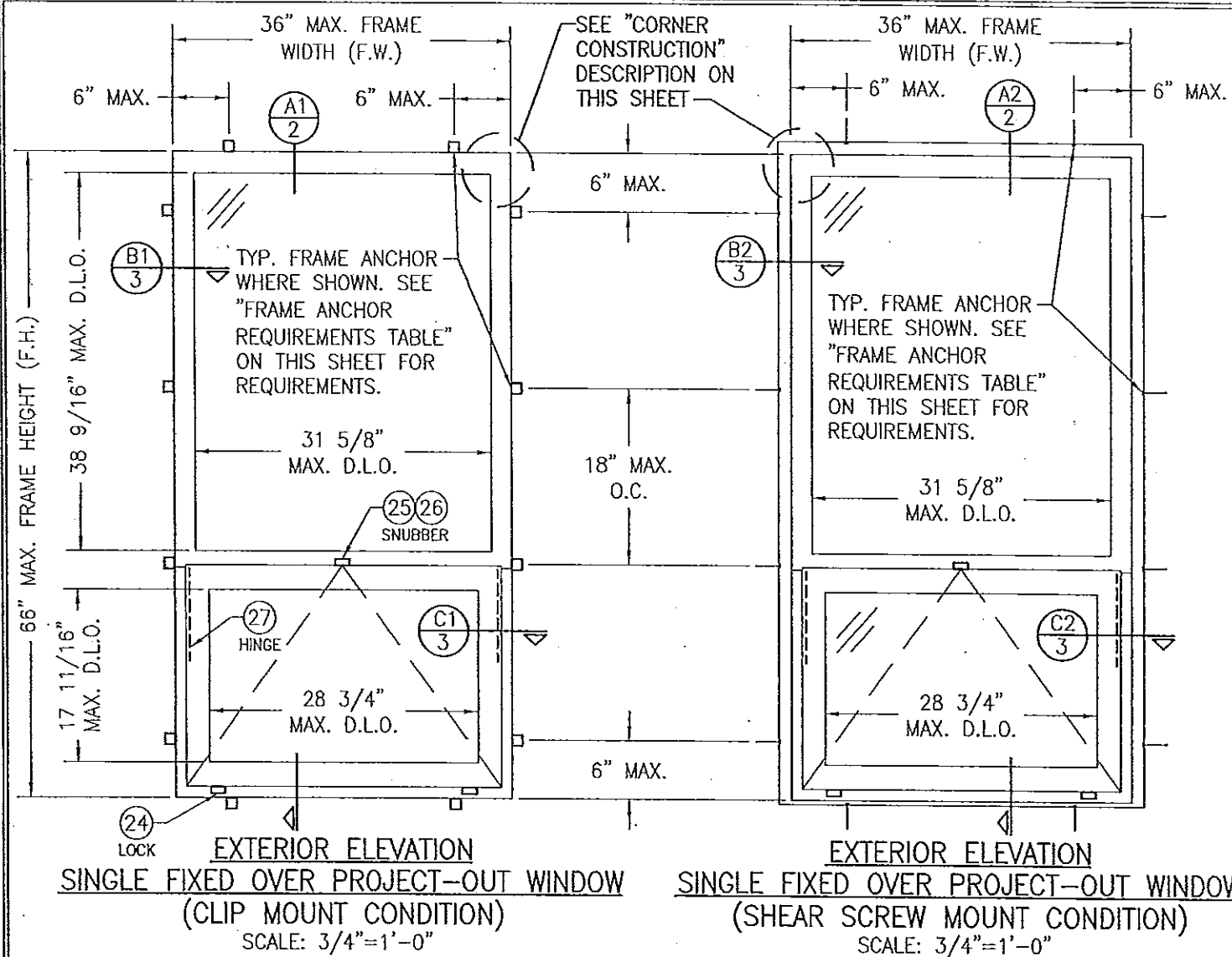
F. STATEMENTS

1. Statement letter of conformance to and compliance with the **FBC 5th Edition (2014)**, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 04/14/14 signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of conformance with **ANSI/ AAMA/ NWWDA 11/ I.S.2-97** and complying with **FBC-2010**, issued by W.W. Schaefer Engineering & Consulting P.A., dated 02/26/13, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 13-0304.10)
3. Statement letter of no financial interest and independence, issued by W.W. Schaefer Engineering & Consulting P.A., dated 02/26/13, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 13-0304.10)
4. Laboratory compliance letter for Test Reports No. **FET-T248-11** and **FET-T248-11**, issued by Farabaugh Engineering and Testing, Inc., dated 08/08/11, signed and sealed by Daniel G. Farabaugh, P. E.
(Submitted under previous NOA No.13-0304.10)
5. Proposal No. **10-0479** issued by Product Control, dated 07/01/10, signed by Manuel Perez, P. E.
(Submitted under previous NOA No. 11-1013.10)
6. Laboratory compliance letter for Test Reports No.'s **HTL-G049-0102-05**, **HTL-G049-0403-05** and **HTL-G049-0505-05**, issued by Hurricane Test Laboratory, LLC, dated 07/07/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 05-0725.06)

G. OTHERS

1. Notice of Acceptance No. **13-0304.10**, issued to Kawneer Company, Inc. for their Series "Series 7225/ 8225TL Aluminum Fixed over Project-Out Window – L.M.I., approved on 05/23/13 and expiring on 12/01/15.


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0430.14
Expiration Date: December 01, 2015
Approval Date: August 14, 2014



GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_D = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_D = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

| ALLOWABLE DESIGN PRESSURE | |
|----------------------------|--|
| +/-90 PSF | |
| LARGE MISSILE IMPACT RATED | |

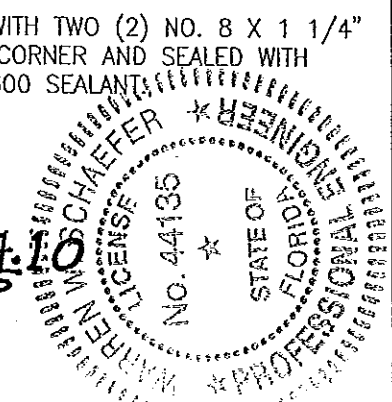
| FRAME ANCHOR REQUIREMENTS TABLE | | | |
|--|-----------------------------------|---------------|--------------------|
| CLIP & FRAME SCREWS | | | |
| OPENING TYPE (SUBSTRATE) | FRAME TO OPENING FASTENER TYPE | MINIMUM EMBED | MINIMUM EDGE DIST. |
| MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$) | NO. 12 SMS OR WOOD SCREW | 1 1/4" | 3/4" |
| MIN. 18 GA. 33 KSI METAL STUD | NO. 12 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. 1/8" THK A36 STEEL | NO. 12 GR. 5 SELF TAP/DRILL SCREW | FULL | 1/2" |
| MIN. C-90 CMU | (1) 1/4" CONCRETE SCREW | 1 1/4" | 2" |
| MIN. 2500 PSI CONCRETE | (1) 1/4" CONCRETE SCREW | 1 1/2" | 2" |
| (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWI-KON II (C.S. OR S.S.). | | | |

CORNER CONSTRUCTION

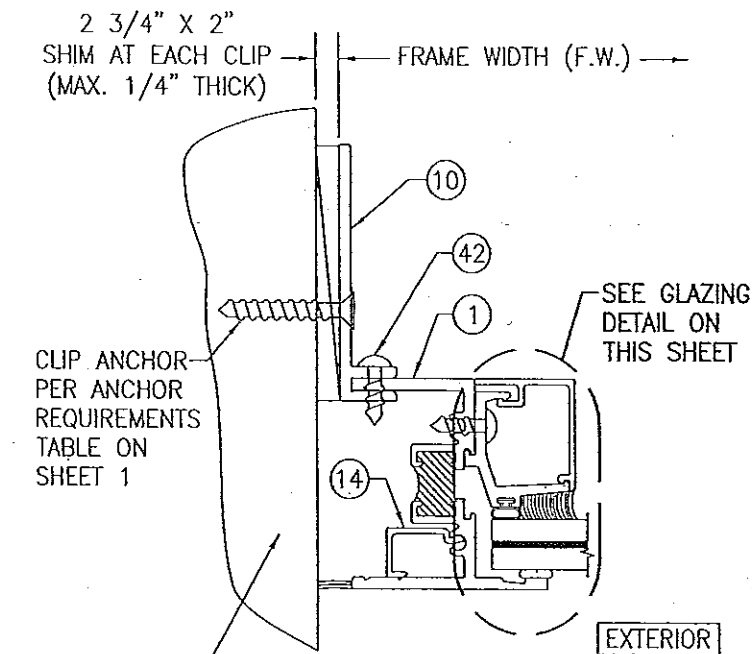
JAMB CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

SASH CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

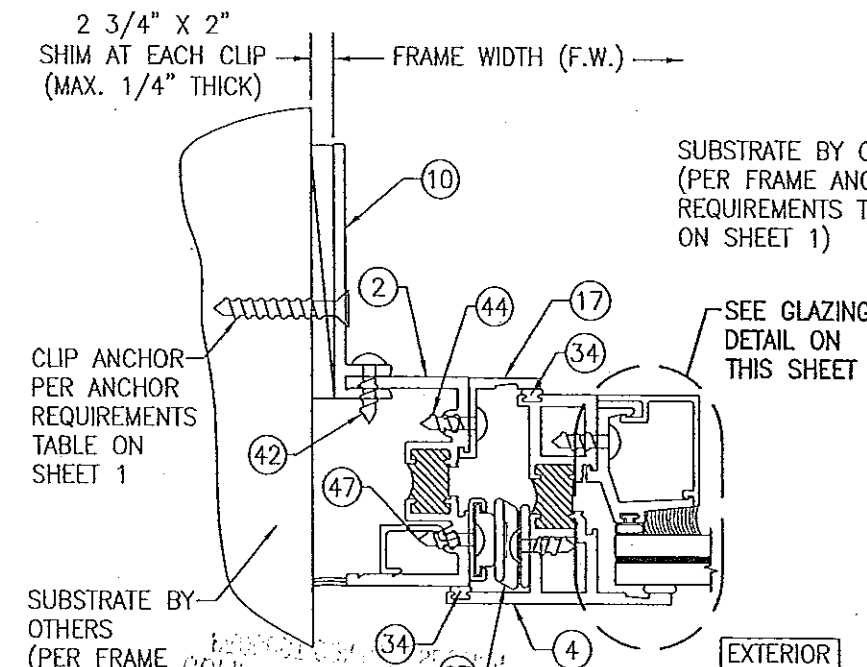
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0304.10
Expiration Date 12/01/2015
By *[Signature]*
Miami Dade Product Control



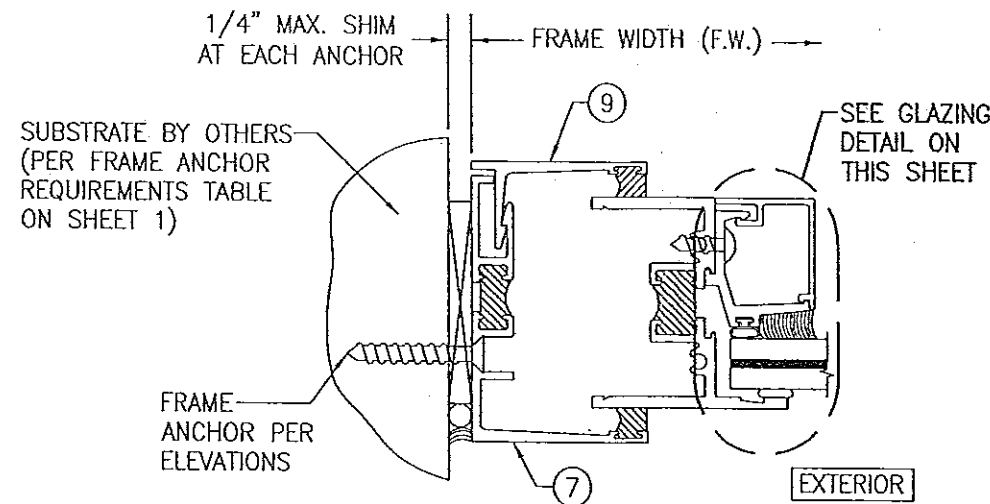
| DRAWING NO. 1415 | | REV. C | | | | | | | | | | | | | | | | |
|---|-----------------------------|----------|--------|----------------------|------|----|----|-----------------------------|----------|--------|----|----------------------------|----------|--------|----|-----------------------|----------|--------|
| SHEET NO. 1 | | OF 4 | | | | | | | | | | | | | | | | |
| DRAWING TITLE: 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT) MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION: MAY 09 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | | | | | | | | | | | | | | | | | | |
| REVISIONS: <table border="1"> <tr> <th>NO.</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td>A1</td> <td>UPDATE TO CURRENT STANDARDS</td> <td>06/01/10</td> <td>W.W.S.</td> </tr> <tr> <td>B1</td> <td>UPDATE CONSULTANTS ADDRESS</td> <td>11/03/11</td> <td>W.W.S.</td> </tr> <tr> <td>C1</td> <td>ADD GLAZING COMPOUNDS</td> <td>02/26/13</td> <td>W.W.S.</td> </tr> </table> | | | NO. | REVISION DESCRIPTION | DATE | BY | A1 | UPDATE TO CURRENT STANDARDS | 06/01/10 | W.W.S. | B1 | UPDATE CONSULTANTS ADDRESS | 11/03/11 | W.W.S. | C1 | ADD GLAZING COMPOUNDS | 02/26/13 | W.W.S. |
| NO. | REVISION DESCRIPTION | DATE | BY | | | | | | | | | | | | | | | |
| A1 | UPDATE TO CURRENT STANDARDS | 06/01/10 | W.W.S. | | | | | | | | | | | | | | | |
| B1 | UPDATE CONSULTANTS ADDRESS | 11/03/11 | W.W.S. | | | | | | | | | | | | | | | |
| C1 | ADD GLAZING COMPOUNDS | 02/26/13 | W.W.S. | | | | | | | | | | | | | | | |
| THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR NATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS. | | | | | | | | | | | | | | | | | | |
| DRAWN BY: K.P.S. CHECKED BY: W.W.S. PLOT: 1-16 DATE: 04/06/05 | | | | | | | | | | | | | | | | | | |



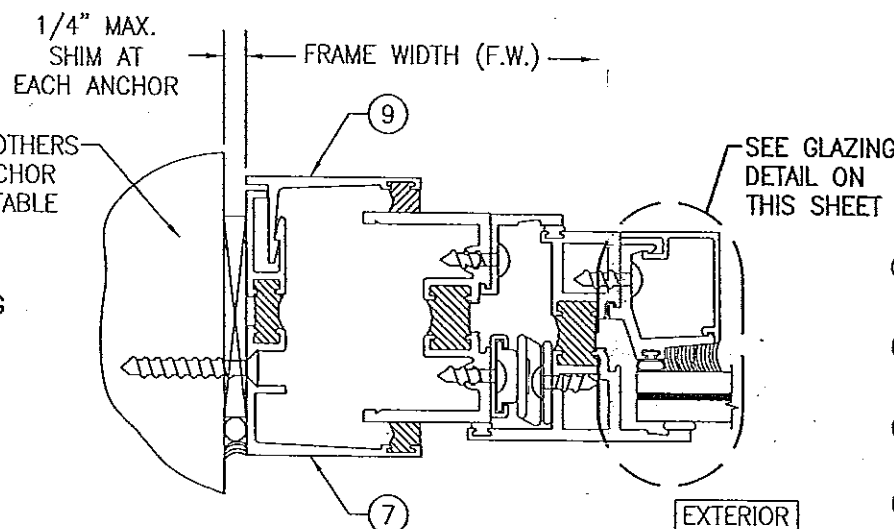
SECTION B1
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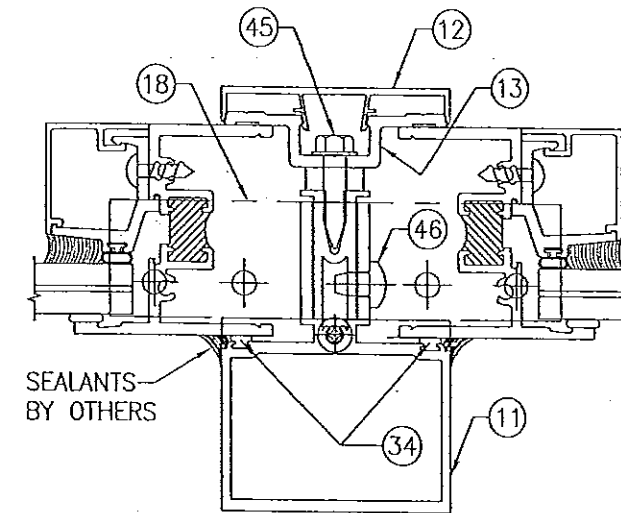
SECTION C1
SCALE: 1/2 FULL



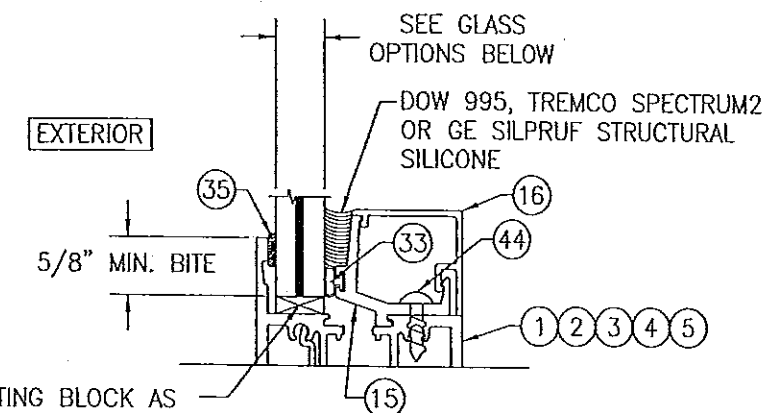
SECTION B2
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE SECTION B1/3



SECTION C2
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE SECTION C1/3



SECTION D
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

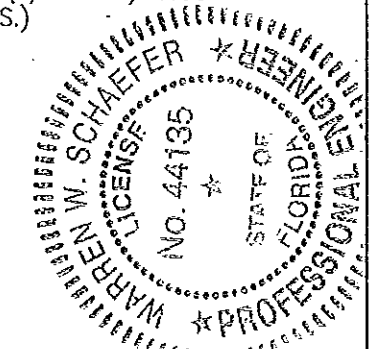


GLAZING DETAIL
SCALE: 1/2 FULL

- GLASS OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.100 SOLUTIA SAFLEX HP/1/4" H.S.)
- GLASS OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.070 SOLUTIA SAFLEX CP/1/4" H.S.)
- GLASS OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.090 DUPONT SG/1/4" H.S.)
- GLASS OPTION 4: 9/16" THICK SOLUTIA SAFLEX LAMINATED GLASS (1/4" H.S./0.090 SOLUTIA SAFLEX/1/4" H.S.)
- GLASS OPTION 5: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.090 DUPONT BUTACITE PVB/1/4" H.S.)

PRODUCT REVISED
as complying with the Florida
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Acceptance No. 14-0430.14
Expiration Date 12/01/2015
By [Signature]
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0304.10
Expiration Date 12/01/2015
By [Signature]
Miami Dade Product Control



| | | | |
|--|----------------------|---|----|
| DRAWN BY: K.P.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1-2 | | DATE: 04/05/05 | |
| NO. | REVISION DESCRIPTION | DATE | BY |
| | | | |
| | | | |
| | | | |
| DRAWING TITLE: 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT) | | | |
| MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555 | | CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 | |
| DRAWING NO. 1415 | | REV. C | |
| SHEET NO. 3 | | OF 4 | |

